

CLAIMS

What is claimed is:

1. A slitting tool for use in severing a tubular body positioned around an implantable medical device (IMD), comprising:
a body member having a surface adapted to be gripped by a user, the surface having a channel to align the IMD, and whereby gripping action of the user maintains the IMD within the channel; and
a cutting member coupled to the body member and positioned to sever the tubular body without severing the IMD.

2. The slitting tool of Claim 1, wherein the surface has a recessed area to be gripped by the user.

3. The slitting tool of Claim 2, wherein the recessed area is textured.

4. The slitting tool of Claim 3, wherein the recessed area is surface treated to provide texturing.

5. The slitting tool of Claim 4, wherein the recessed area is surface treated using a process selected from the group consisting of plasma etching, chemical milling, and ion bombardment.

6. The slitting tool of Claim 1, wherein the body member includes an overmold area formed adjacent a base portion, the overmold area forming at least a portion of the channel.

7. The slitting tool of Claim 6, wherein the overmold area is formed of a lower durometer polymer than the base portion of the body member.

8. The slitting tool of Claim 7, wherein the lower durometer polymer has a high tack.

9. The slitting tool of Claim 8, wherein the overmold area is formed of Thermedics Tecothane® TT-1074A having a durometer of approximately 75 Shore A.

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10. The slitting tool of Claim 9, wherein the base portion of the body member is formed of a material selected from the group consisting of DOW IsoplastTM 301 and DOW Pelletthane[®] 2363-75D polymers.

11. The slitting tool of Claim 1, wherein the body member includes a gripping member.

12. The slitting tool of Claim 11, wherein the gripping member is a ring to receive at least one finger of a user.

13. The slitting tool of Claim 11, wherein the body member includes a guard member to protect the user from the cutting member.

14. The slitting tool of Claim 1, wherein the body includes a nose portion projecting from the body, and wherein a portion of the channel extends adjacent the nose portion.

15. The slitting tool of Claim 14, wherein the nose portion is positioned to be placed between the IMD and the tubular body.

16. The slitting tool of Claim 1, wherein the cutting member has an angle of less than sixty degrees.

17. The slitting tool of Claim 1, wherein the cutting member has a sawtooth edge.

18. The slitting tool of Claim 1, wherein the channel includes a textured surface.

19. The slitting tool of Claim 18, wherein the channel is surface treated to provide the textured surface.

20. The slitting tool of Claim 19, wherein the channel is surface treated using a process selected from the group consisting of plasma etching, chemical milling, and ion bombardment.

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21. The slitting tool of Claim 1, wherein the channel is adapted to accommodate lead bodies having a diameter of between 2 and 8 French.

22. The slitting tool of Claim 1, wherein the channel includes at least one stepped portion to accommodate lead bodies of varying sizes.

23. The slitting tool of Claim 14, wherein the channel has a varying depth.

24. The slitting tool of Claim 23, wherein the channel is deepest along the portion of the channel extending adjacent the nose portion.

25. The slitting tool of Claim 16, wherein the cutting member has an angle of between 15 and 45 degrees.

26. A method for allowing a user to sever a tubular body positioned around an implantable medical device (IMD), comprising:
a.) providing a slitting tool having a cutting member and a surface adapted to be gripped by a user, the surface having a channel to align the IMD;
b.) aligning a portion of the IMD within the channel;
c.) positioning a finger of the user over the channel to maintain the IMD in position; and
d.) directing the IMD toward the cutting member.

27. The method of Claim 26, wherein the slitting tool has a recessed area, and wherein step c.) includes positioning the finger within the recessed area.

28. The method of Claim 27, wherein the cutting member has a sawtooth shape having an apex, and further including positioning the apex adjacent a portion of the IMD.

29. The method of Claim 28, wherein the tubular body includes a shaft, and further including using the apex of the cutting member to sever the shaft.

30. The method of Claim 27, wherein the cutting member has a gripping member, and further including positioning one or more other fingers of the user adjacent the gripping member.

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31. The method of Claim 27, wherein the cutting member has a guard member, and further including positioning the guard member between the cutting member and one or more other fingers of the user.

32. The method of Claim 27, wherein the channel includes a tacky surface, and further including placing a surface of the IMD in contact with the tacky surface to pre-position the slitting tool in relation to the IMD

33. A slitting tool for use in severing a tubular body positioned around an implantable medical device (IMD), comprising:

body means for gripping by a user, the body means having channel means for aligning the IMD, and whereby gripping action of the user maintains the IMD within the channel means; and cutting means for severing the tubular body without severing the IMD.

34. The slitting tool of Claim 33, wherein the body means has recessed means for providing a better grip.

35. The slitting tool of Claim 33, wherein the channel means includes overmold mean for providing better contact with the IMD.

36. The slitting tool of Claim 33, wherein the body means includes guard means for protecting the user's fingers from the cutting means.

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